

QUILLAYUTE – SOL DUC SUMMER CHINOOK

STOCK STATUS

1992 STATUS	2002 STATUS
Healthy	Unknown

STOCK STATUS RATING DATA

Abundance data for the natural-origin component of this composite stock are very limited, due to the mixing of the native stock (Sol Duc summer Chinook) with the introduced stock (Sol Duc hatchery spring Chinook). Although escapement is monitored, there are inadequate abundance trend data with which to rate stock status, so status is **Unknown** in 2002.

STOCK DEFINITION

Sol Duc summer Chinook were identified as a stock based on their distinct spawning distribution, early river entry (April to mid-August), and spawning timing.

SPAWNING DISTRIBUTION: Most spawning takes place in the mainstem Sol Duc River (RM 18.0 to RM 45.0). Spawning is also observed in Beaver and Bear creeks in years of moderate to high late summer flows.

SPAWNING TIMING: Spawning generally occurs from late August to mid-October.

GENETIC ANALYSIS: Genetic analysis has not been done on this stock.

STOCK ORIGIN

This is a **mixed** stock with **composite** production. This stock is composed of a native summer run stock and a non-native spring run stock. Chinook from WDFW Sol Duc Hatchery, which are likely a mixture of Dungeness Chinook and some Sol Duc summer Chinook, are known to stray onto wild spawning grounds. Since 1987 the Quileute Tribe has operated a summer Chinook hatchery program at Bear Springs using brood stock from the wild spawning population. Subsequent scale analyses revealed that a significant portion of the brood stock were of hatchery origin. Chinook from this program also stray onto wild spawning grounds. The summer Chinook stock may be a mixture of hatchery spring Chinook and native summer Chinook. Presently 100% of the hatchery fish are marked which will help distinguish hatchery and wild fish on the spawning grounds.